

Alice worksheet Key

Tuesday, March 05, 2013
10:32 AM

1. Conditional Statement

If I sleep, then I breathe.	If I breathe, then I sleep.
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2

Converse

If I breathe, then I sleep	If I sleep, then I breathe
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3 Inverse

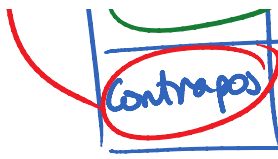
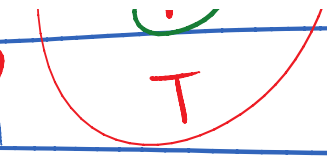
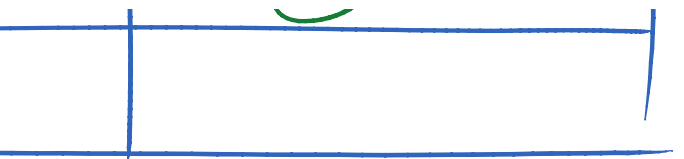
If I am not sleeping, then I'm not breathing	If I do not breathe, then I do not sleep.
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4 Contrapositive

If I don't breathe, then I don't sleep.	If I don't sleep, then I don't breathe
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5 T/F

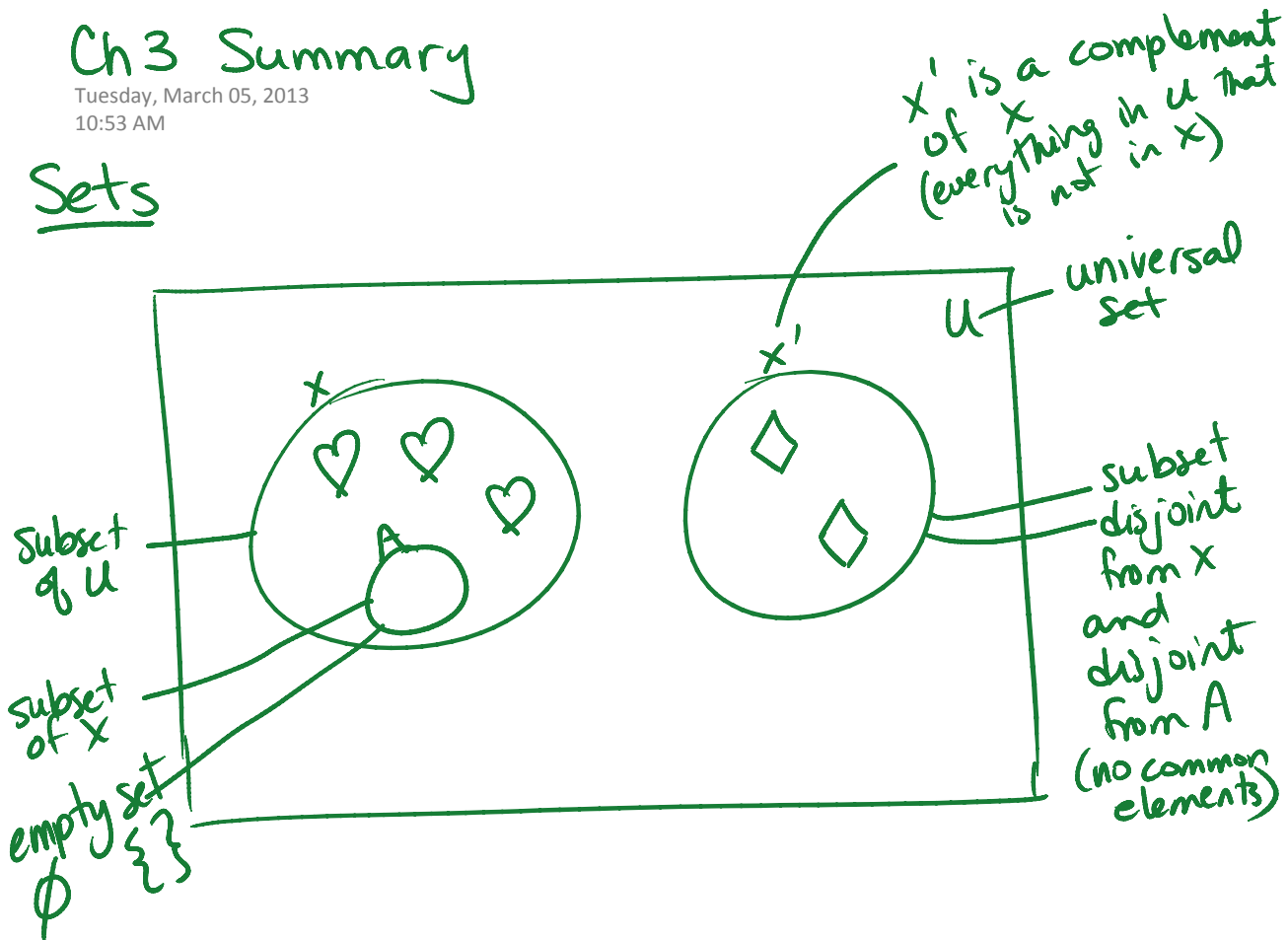
orig. (conditional)	T	F
Inverse	F	T
Converse	F	T
Contrapos	T	F

 Contraposa	 T	
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Ch3 Summary

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Sets



mutually exclusive - events can't happen at the same time

finite set - a countable # of elements

infinite set - not a countable # ex {real # set}

$n(x)$ = number of elements in x
(instead of listing all elements)

Logic

Conditional - if p then q
 p - hypothesis
 q - conclusion

Converse - switch hypoth. and conclus.

Inverse - add "nots" to conditional

Contrapositive - add "nots" to the converse.

Biconditional - conditional and its converse
are both true
"... if and only if ..."

Practice pg 217 #1-5
pg 220 #1-6, 8